

No. of Printed Pages: 1

Roll No.....

**JAMIA HAMDARD
DEPARTMENT OF PHYSIOTHERAPY
SCHOOL OF NURSING SCIENCES & ALLIED HEALTH**

MPT 1st YEAR (CARDIOPULMONARY), ANNUAL EXAMINATION, MAY 2024

BASIC HEALTH SCIENCES (THEORY)

PAPER CODE: MTC – 161

Time: 3 Hours

Maximum Marks: 75 Marks

(Write your Roll No. on top of the paper immediately)

All sections are compulsory. Draw diagrams wherever necessary. Give examples wherever necessary.

SECTION – A

Answer any **FIVE** of the following:

(5 × 5 Marks = 25 Marks)

- Q1.** Heart sounds
- Q2.** Principles of gas exchange
- Q3.** Write about the ECG paper and the basic ECG waves.
- Q4.** Classification of diuretics
- Q5.** Forces controlling capillary dynamics
- Q6.** Write a short note on adult respiratory distress syndrome.

SECTION - B

Answer any **TWO** of the following:

(2 × 10 Marks = 20 Marks)

- Q1.** Write a short note on coronary circulation with appropriate diagram.
- Q2.** Electrical conduction of the heart with diagram.
- Q3.** Mechanism of respiration and its control.

SECTION - C

Answer any **TWO** of the following:

(2 × 15 Marks = 30 Marks)

- Q1.** Explain about the cardiac cycle and its regulation.
- Q2.** Explain the pathophysiology of pneumothorax, pleural effusion and empyema with their signs and symptoms and Physiotherapy management.
- Q3.** Explain in detail about pharmacological exercise testing.
